

AMENDMENTS TO THE SPECIFICATION

Please amend the specification, as follows:

Page 1, amend the title, as follows:

~~METHOD AND DEVICE FOR MANUFACTURING~~ TYRE COMPRISING METAL
~~CORD FOR REINFORCING ELASTOMERIC PRODUCTS, PARTICULARLY TYRES~~

Page 1, add two section headings, a section subheading, and a paragraph immediately after the new title TYRE COMPRISING METAL CORD, as follows:

CROSS-REFERENCES TO RELATED APPLICATIONS

This application is a divisional of U.S. Patent Application Serial No. 10/187,610, filed July 3, 2002, in the U.S. Patent and Trademark Office, which is a divisional of U.S. Patent Application Serial No. 09/886,379, filed June 22, 2001, in the U.S. Patent and Trademark Office (now U.S. Patent No. 6,446,423), which is a continuation of International Patent Application No. PCT/EP99/10055, filed December 14, 1999, in the European Patent Office; also, Applicant claims the benefit under 35 U.S.C. § 119(e) based on prior-filed, provisional application No. 60/122,391, filed March 2, 1999, in the U.S. Patent and Trademark Office; additionally, Applicant claims the right of priority under 35 U.S.C. § 119(a) - (d) based on patent application No. 98830785.6, filed December 24, 1998, in the European Patent Office; the contents of all of which are relied upon and incorporated herein by reference.

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BACKGROUND OF THE INVENTION

Field of the Invention

Page 1, amend the paragraph beginning with “In particular, the preforming device . . .” as follows:

In particular, the preforming device according to the present invention is suitable for operating on ~~higher carbon~~ high carbon content metal wires, which are preferred for manufacturing high elongation cords.

Page 1, line 16, add section subheading “Description of the Related Art” prior to the start of the paragraph beginning “The expression ‘high elongation’ is used to indicate . . .”

Pages 2-3, amend the paragraph beginning with “Preferably said cords are produced . . .” as follows:

Preferably said cords are produced by means of stranding machines comprising: a supporting structure; a rotor coupled to said supporting structure which is rotatable according to a predefined axis; a cradle fastened to the supporting structure according to an oscillation axis which coincides with the axis of rotation of the rotor; feeding devices operatively assembled on said cradle and/or on its outside, suitable for feeding one or more elementary wires coming from respective feeding spools, said one or more elementary wires being driven along suitable stranding paths; and preferably at least one preforming device operating on one or more

elementary wires in a section of the wires which ~~preceeds~~ precedes the subsequent stranding phase.

Page 10, line 4, add section heading "SUMMARY OF THE INVENTION" prior to the start of the paragraph beginning "The Applicant has surprisingly found"

Page 13, line 10, add section heading "BRIEF DESCRIPTION OF THE DRAWINGS" prior to the start of the paragraph beginning "Further features and advantages"

Page 13, line 26, add section heading "DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS" prior to the start of the paragraph beginning "With reference to the aforesaid Figures"

Page 14, amend the paragraph beginning with "In a manner known per se, cord 1 . . ." as follows:

In a manner known per se, cord 1 comprises several elementary wires, made of steel with ~~aeracarbon~~ a carbon content between 0.65% and 0.98% and with a diameter between 0.10 mm and 0.50 mm, helicoidally twisted around the axis of longitudinal extension of the cord.

Pages 22-23, amend the paragraph beginning with "Table I illustrates the main technical-constructive . . ." as follows:

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Table I illustrates the main technical-constructive parameters of one embodiment of preforming device 15 according to the present invention. According to this ~~embodimentn~~ embodiment, the pulleys of the device according to the invention present equal diameter, an equal number of pins and pins of equal diameter. However, other embodiments are possible, e.g. pulleys presenting pins with different diameters.

Pages 24-25, amend the paragraph beginning with "Carcass 100 comprises one or morecarcass . . ." as follows:

Carcass 100 comprises one or ~~morecarcass~~ more carcass plies fixed to said bead wires 150, for example, folded around said bead wires from the inside towards the outside. The carcass ply or plies can be formed by sections of rubberized fabric reinforced with textile or metal cords embedded in the fabric rubber.

Page 25, amend the paragraph beginning with "Belt strips 230 and 240 are formed by sections of rubberized . . ." as follows:

Belt strips 230 and 240 are formed by sections of rubberized fabric incorporating metal cords, parallel with respect to each other in each strip and crossed with those of the adjacent strips, inclined preferably in a symmetrical manner with respect to the ~~equatorial~~ equatorial plane of the tyre at an angle of between 10° and 30°, while belt strip 250 is provided with cords which are ~~circumferentially~~ circumferentially oriented, i.e. at 0° with respect to said ~~equatorial~~ equatorial plane. This strip 250 can be made, in particular for truck tyres and the like, by a pair

of bands symmetrically located with respect to the ~~equatorial~~ equatorial plane of the tyre. For truck tyres, an auxiliary strip (not shown in the figure) may be used in external radial position with respect to belt structure 210, provided with reinforcing cords inclined with respect to the ~~equatorial~~ equatorial plane by an angle of between 10° and 70°, usually called “breaker layer”.

Pages 25-26, amend the paragraph beginning with “Similarly, other constructive elements of the tyre can be formed . . .” as follows:

Similarly, other constructive elements of the tyre can be formed by sections of rubberized fabric with suitably reinforcing cords inclined with respect to the axial, radial and/or ~~circumferential~~ circumferential directions of the tyre, as required. For example, aforesaid reinforcing edge 190 employs inclined cords according to an angle included between 30° and 60° with respect to the axial direction.

Page 27, Table II, left column, fifth row, amend “Ultimate tensile strenght,” as follows, “Ultimate tensile ~~strenght~~ strength.”

Page 28, amend the paragraph beginning with “The ultimate tensile strenght and ultimate elongation tests . . .” as follows:

The ultimate tensile ~~strenght~~ strength and ultimate elongation tests were carried out both on bare cord and on cord embedded in the elastomer matrix and subjected to vulcanisation according to methods not described herein since typically known in the prior art.

Page 30, amend the paragraph beginning with "Furthermore, te achieved results confirm the obtainement . . ." as follows:

Furthermore, [[te]] the achieved results confirm the ~~obtainement~~ obtainment of a greater rubber penetration and a considerably higher ultimate elongation which results in a greater elasticity of the cord. This aspect is particularly desired when these cords are used as reinforcing cords for elastomers used to manufacture tyres.

Add a new Page 36 after the claims, adding the following ABSTRACT OF THE DISCLOSURE. A new, separate Page 36 including the ABSTRACT OF THE DISCLOSURE is enclosed.

ABSTRACT OF THE DISCLOSURE

A tyre for a vehicle wheel, includes a torus-shaped carcass, a tread located on a periphery of the carcass, and a pair of axially-facing side walls ending with beads reinforced with bead wires and respective bead-filling elements for mounting the tyre on a corresponding rim. The tyre includes rubberized fabrics reinforced with metal reinforcing cords. At least one of the metal reinforcing cords comprises at least two wires helicoidally double-twisted around a longitudinal axis of the metal cord. Further, at least one of the wires is permanently deformed by a substantially-sinusoidal deformation lying in a plane.

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